In the Claims

1. (Currently Amended) A method of remediating media contaminated with halogenated hydrocarbons comprising:

forming Fe-S based inorganic compounds mainly comprising sulfur on at least portions of surfaces of iron powder <u>particles</u> containing about 0.1 to about 2% by mass of sulfur and about 0.1 0.06 % by mass or less of manganese as the composition, based on the mass of the iron powder, wherein the Fe-S based inorganic compounds are formed by precipitation of iron and sulfur contained in the iron powder particle;

subsequently contacting the halogenated hydrocarbons contained in the media with the iron powder; and

causing reduction of halogenated hydrocarbons.

- 2. (Canceled)
- 3. (Canceled)
- 4. (Canceled)
- 5. (Original) The method according to Claim 1, wherein said media is selected from the group consisting of soil, water and gases.
- 6. (Original) The method according to Claim 1, wherein about 0.1 to about 10% by mass of the iron powder is contacted with the media containing the halogenated hydrocarbons, based on the mass of the media.
- 7. (Previously Presented) The method according to claim 1, wherein the halogenated hydrocarbons are selected from the group consisting of trichloroethylene, tetrachloroethylene, 1,1,1-trichoroethane, 1,1,2-tricholorethane, 1,1-dichoroethylene, cis-1,2-dichloroethylene, trans-1-2-dichloroethylene, 1,1-dichoroethane, dichoromethane, carbon tetrachloride, methyl chloride,

chloroform, methyl chloroform, 1,1,2,2-tetrachloroethane, 1,2-dichloropropane, 1,3-dichloropropane, methyl bromide, 2-bromopropane, 1,3-dibromopropane, 1,4-dibromopropane, allyl bromide, PCB and dioxin.

- 8. (Original) The method according to Claim 1, wherein contacting the iron powder with the media is achieved by spraying on, mixing with or injecting into the media.
- 9. (Original) The method according to Claim 1, wherein surfaces of the iron powder are wet with at least one or more layers of water molecule layers.
 - 10. 12. (Canceled)
- 13. (Previously Presented) A method of remediating media contaminated with halogenated hydrocarbons comprising:

forming Fe-S based inorganic compounds mainly comprising sulfur on at least portions of surfaces of iron powder by precipitation of sulfur in the iron powder containing about 0.1 to about 2% by mass of sulfur and about 0.1% by mass or less of manganese as the composition, based on the mass of the iron powder;

subsequently contacting the media with the iron powder such that the iron powder contacts the halogenated hydrocarbons contained in the media; and

causing reduction of halogenated hydrocarbons.

- 14. (Previously Presented) The method according to Claim 1, wherein the forming of Fe-S is conducted by manufacturing the iron powder by water atomization of molten steel of the composition.
- 15. (New) The method according to Claim 14, wherein the iron powder is a non-reduced water-atomized iron powder.

- 16. (New) The method according to Claim 13, wherein the forming of Fe-S is conducted by manufacturing the iron powder by water atomization of molten steel of the composition.
- 17. (New) The method according to Claim 1, wherein the degree of surface precipitation of the Fe-S based inorganic compounds is 10 or more in a unit of number of particles per 250 μm².
- 18. (New) A method of remediating media contaminated with halogenated hydrocarbons comprising:

forming Fe-S based inorganic compounds mainly comprising sulfur on at least portions of surfaces of iron powder particles containing about 0.1 to about 2% by mass of sulfur and about 0.06% by mass or less of manganese as the composition, based on the mass of the iron powder, wherein the Fe-S based inorganic compounds are formed by precipitation of iron and sulfur contained in the iron powder particle, and wherein the forming of Fe-S is conducted by manufacturing the iron powder by water atomization of molten steel of the composition;

subsequently contacting the halogenated hydrocarbons contained in the media with the iron powder; and

causing reduction of halogenated hydrocarbons.

- 19. (New) The method according to claim 1, wherein the S content of the iron particles is about 0.1 to about 0.4%.
- 20. (New) The method according to claim 13, wherein the S content of the iron particles is about 0.1 to about 0.4%.
- 21. (New) The method according to claim 18, wherein the S content of the iron particles is about 0.1 to about 0.4%.